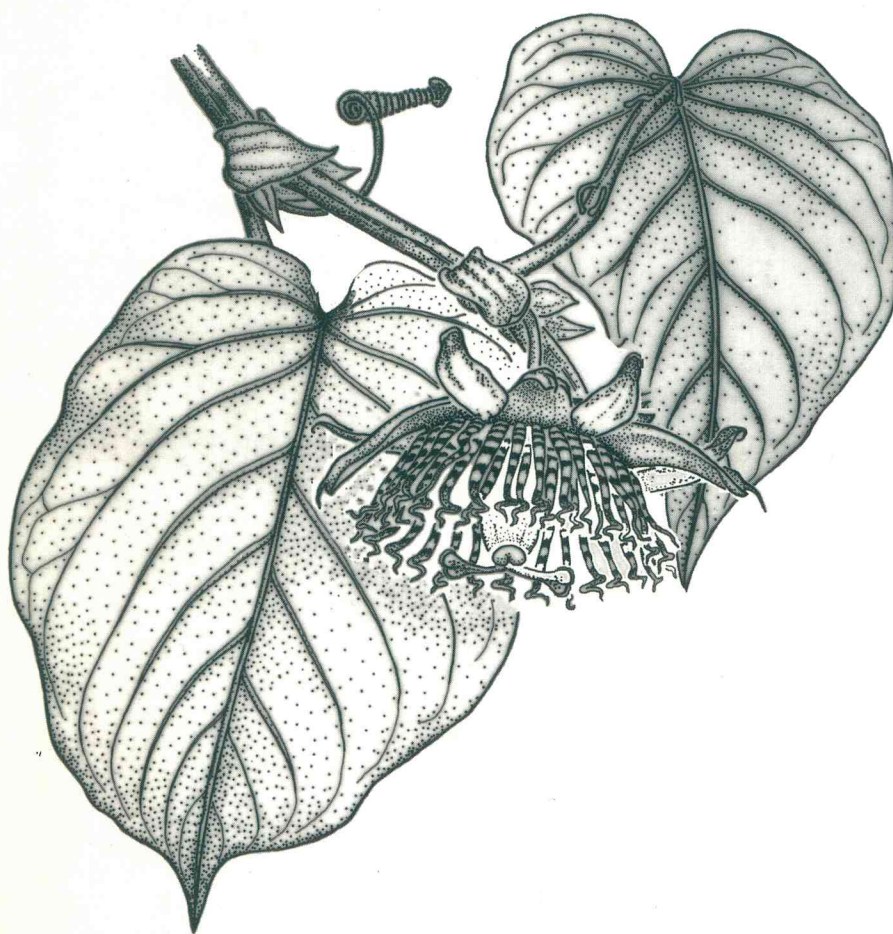


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Especies del Orden Trichoptera (Insecta) en Colombia

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Palabras Clave: Trichoptera, Insectos Acuáticos, Listado de Especies, Colombia, Neotrópico

Trichoptera es el orden de insectos cuyas alas, principalmente las anteriores, están cubiertas por pelos (del griego “trichos” = pelos, “pteron” = ala, “ala con pelos”), y que presentan metamorfosis completa (holometábolos). Las formas inmaduras (huevo, larva y pupa) son generalmente acuáticas y se encuentran comúnmente en ríos, riachuelos, cascadas y lagos. Es considerado el orden más importante de insectos acuáticos por la diversidad, abundancia y distribución biogeográfica de sus especies. Está presente en los ecosistemas acuáticos de todas las regiones biogeográficas, excepto en la Antártida, desempeñando un papel trófico fundamental en dichos ecosistemas (Merritt & Cummins 1996, Wiggins 1996).

Adultos

Los tricópteros adultos se parecen a las mariposas nocturnas llamadas “polillas” o “palomillas” de los Lepidoptera, pero se distinguen de ellas por la abundancia de pelos en las alas con colores parduscos y oscuros, las cuales disponen en forma de techo sobre el abdomen cuando descansan. Los adultos en su mayoría presentan tamaño pequeño, pero algunas especies son grandes (3-40 mm), con antenas largas, finas y filiformes, las partes bucales reducidas, palpos maxilares y labiales bien desarrollados, y no presentan próboscis o trompa, pero sí un haustelo o “haustellum” que les permite absorber líquidos (agua, néctar). Los adultos son terrestres, generalmente crepusculares y nocturnos, pero algunas especies exhiben actividad diurna y, por lo general, tienen vida corta.

Inmaduros

La masa de los huevos se deposita en el agua o en la vegetación cercana al cuerpo de agua. El cuerpo de las larvas (2-40 mm) tiene tres regiones bien desarrolladas y diferenciadas: Cabeza, tórax y abdomen. Las larvas de los Trichoptera se parecen a las orugas de los Lepidoptera, pero las de los

Trichoptera poseen además de los tres pares de patas torácicas, un solo par de propatas anales con una uña en el último segmento abdominal, y no presentan espiráculos abiertos (apneústicos). Las larvas tienen una glándula salival modificada que les permite producir seda para sostenerse en el sustrato o para construir redes para filtrar agua y obtener alimento o construir casas o refugios con granos de arena, piedritas, partículas orgánicas, palitos, hojas y minerales. Las pupas viven y se desarrollan dentro de un pupario de seda, ya sea por modificación de la casa o refugio larval, o mediante la construcción de un pupario nuevo (Merritt & Cummins 1996, Wiggins 1996). Las etapas inmaduras de Trichoptera son sensibles a la contaminación y degradación del hábitat y por tal motivo, son usadas como bioindicadores de calidad de aguas (Merritt & Cummins 1996, Resh & Unzicker 1975, Rosenberg & Resh 1993, Resh 1994).

Colombia

En términos de la fauna de Trichoptera, la Región Neotropical está dividida en dos subregiones biogeofaunísticas: La **Subregión Brasileña** y la **Subregión Chilena** (Ross 1967, Flint 1976, Flint *et al.* 1999). Colombia se localiza en la Subregión Brasileña.

En 1913, Ulmer registró un total de 162 especies para Sur América, de las cuales 16 estaban presentes en Colombia. Morse (1997) reportó 1.849 nombres válidos de especies para la Región Neotropical, siendo la segunda región biogeográfica con más especies conocidas, después de la Región Oriental (2.801). El único trabajo taxonómico sobre tricópteros de Colombia es el publicado por Flint (1991), específicamente para el Departamento de Antioquia. En dicho trabajo, Flint comunicó la presencia de 124 especies en la región, clasificadas en 37 géneros y 14 familias. De esas 124 especies, 69 (55%) fueron especies nuevas. El catálogo más actualizado y completo de las especies de Trichoptera para la Región Neotropical (Flint *et al.* 1999) registró 2.196

nombres o especies válidas (incluyendo 18 subespecies) y 21 especies fósiles, clasificadas en 154 géneros (uno de ellos fósil) y 24 familias. Este trabajo documentó para Colombia, 205 especies válidas (incluyendo 1 subespecie) (9%), agrupadas en 45 géneros y 13 familias.

En este listado preliminar, se registran para la Región

Neotropical 2.197 especies válidas (incluyendo 18 subespecies) y 21 especies fósiles, clasificadas en 153 géneros (más un género fósil) y 24 familias (Flint *et al.* 1999; Muñoz-Q. 1999) (Cuadro 1). Para Colombia, se informa de 210 especies válidas (1 subespecie) y documentadas en la literatura (10%), clasificadas en 45 géneros (29%) y 13 familias (54%) (Listado Taxonómico).

Colombian Species of the Order Trichoptera (Insecta)

Fernando Muñoz-Quesada

Key Words: Trichoptera, Caddisfly, Aquatic Insects, Species List, Colombia, Neotropics

Trichoptera (caddisflies) are the insect order with hairy wings ("trichos" = hairs, "pteron" = wing). This order has complete metamorphosis (holometabolous). Their immature stages (egg, larva, and pupa) are aquatic and are commonly found in streams, rivers, water falls, and lakes. The order is considered the most important aquatic insect order on the basis of the abundance, diversity, and distribution of their species. Trichoptera is present in all biogeographic regions, except in the Antarctic (Merritt & Cummins 1996, Wiggins 1996).

Adults

Adult caddisflies look like fragile moths (Lepidoptera) with often dark colors, but they are differentiated by having hairy wings. The wings are frequently held rooflike when folded over the abdomen. Adults are generally small (3-40 mm), with slender, long, and filiform antennae. Mouth parts are reduced, and maxillary and labial palps usually well developed. They have no coiled, tubelike proboscis but a well-developed haustellum for imbibing water or nectar. Adults are terrestrial most often with crepuscular or nocturnal habits, but some species are diurnal.

Immatures

Fertilized females lay eggs in water or on vegetation overhanging water. Caddisfly larvae have a body (2-40 mm) with three well developed and differentiated regions: Head, thorax, and abdomen. Trichoptera larvae are similar to Lepidoptera larvae, but they are distinguished by having only one pair of anal prolegs on the last abdominal segment, each with a strong «anal claw», and by lacking spiracles (apneustic). Caddisfly larvae have a salivary silk gland which allows them to produce silk. They spin silk to build nets that filter water to get food, or for building different kinds of cases and retreats in aquatic

habitats constructed of sand and small pebbles or bits of leaves and twigs. Caddisfly pupae are typically aquatic and develop within a pupal case which may be a modified larval case or refuge, or may be a newly constructed a new pupal case. Immature stages are vital components of aquatic ecosystems because they participate in aquatic food webs at many levels. (Merritt & Cummins 1996, Wiggins 1996). They are sensitive to pollution and habitat degradation and are used in biomonitoring programs as biological indicators of water quality (Merritt & Cummins 1996, Resh & Unzicker 1975, Rosenberg & Resh 1993, Resh 1994).

Colombia

In terms of the Trichoptera fauna, the **Neotropical Region** is divided in two biogeographic subregions: The **Brazilian Subregion** and the **Chilean Subregion** (Ross 1967, Flint 1976, Flint *et al.* 1999b). Colombia is within the Brazilian Subregion.

In 1913, Ulmer reported 132 caddisfly species for South America: 16 species were present in Colombia. Morse (1997) listed 1.849 valid species names for the Neotropical Region, making it the second most diverse biogeographic region known after the Oriental Region (2.801). In 1991, Flint published an important taxonomic work on Colombian caddisfly species, specifically covering the Department of Antioquia. This work reported 124 species classified in 37 genera and 14 families. Of the 124 species, 69 species were new (55%). Flint *et al.* (1999) documented 2.196 valid species names for the Neotropics (including 18 subspecies) and 21 fossil species, classified in 154 genera (one of them a fossil genus) and 24 families. For Colombia, this recent catalog registered 205 species (1 subspecies) in 45 genera and 13 families.

This preliminary checklist reports 2.197 valid species names for the Neotropical Region (including 18 subspecies) and 21 fossil species, classified in 153 genera (+ one fossil genus) and 24 families (Flint et al. 1999,

Muñoz-Q. 1999) (Box 1). For Colombia, this work finds out about 210 valid Colombian species (1 subspecies) (10%), classified in 45 genera (29%) and 13 families (54%) (Taxonomic List).

Cuadro 1. Sinopsis Taxonómica a nivel supraespecífico (género, familia y suborden) de los Trichoptera conocidos para la Región Neotropical y Colombia. Los géneros y sus respectivas familias han sido ordenados alfabéticamente, los subórdenes siguen el esquema filogenético presentado por Flint et al. (1999). Una sinopsis taxonómica más detallada de los Trichoptera neotropicales puede ser encontrada en Flint et al. (1999). (†) Especies fósiles.

Box 1. Taxonomic Synopsis to supra-species level (genus, family, and suborder) of the known Trichoptera for the Neotropical Region and Colombia. The genera and respective families have been alphabetically ordered. The suborders follow the phylogenetic format presented by Flint et al. (1999). Flint et al. (1999) offers a detailed taxonomic synopsis for Neotropical Trichoptera. (†) Fossil species.

Taxón Taxon	Neotrópico Neotropics		Colombia Colombia		Referencias References
	Géneros Genera	Especies Species	Géneros Genera	Especies Species	
Suborden SPICIPALPIA	70	867 + 9†	14	63	
Glossosomatidae	14	163 + 3†	3	17	
<i>Campsiophora</i> Flint, 1964		3			Flint 1964
<i>Canoptila</i> Mosely, 1939		1			Mosely 1939
<i>Cariboptila</i> Flint, 1964		10			Flint 1964
<i>Cubanoptila</i> Sykora, 1973		5 + 3†			Botosaneanu & Sykora 1973
<i>Culoptila</i> Mosely, 1954		13			Mosely 1954
<i>Glossosoma</i> Curtis, 1834		1			Curtis 1834
<i>Itauara</i> Müller, 1888		4			Müller 1888
<i>Mastigoptila</i> Flint, 1967		7			Flint 1967a
<i>Merionoptila</i> Schmid, 1959		1			Schmid 1959
<i>Mexitrichia</i> Mosely, 1937		27		6	Mosely 1937
<i>Mortoniella</i> Ulmer, 1906		22		5	Ulmer 1906
<i>Protoptila</i> Banks, 1904		67		6	Banks 1904
<i>Scotiotrichia</i> Mosely, 1934		1			Mosely 1934
<i>Tolhuaca</i> Schmid, 1964		1			Schmid 1964
Hydrobiosidae	22	167	1	5	
<i>Amphichorema</i> Schmid, 1989		3			Schmid 1989
<i>Androchorema</i> Flint, 1979		1			Flint 1979
<i>Apatanodes</i> Navás, 1934		2			Navás 1934
<i>Atopsyche</i> Banks, 1905		117		5	Banks 1905
<i>Australobiosis</i> Schmid, 1958		3			Schmid 1958
<i>Cailloma</i> Ross & King, 1951		3			Ross & King 1951
<i>Clavichorema</i> Schmid, 1955		7			Schmid 1955a
<i>Heterochorema</i> Schmid, 1989		1			Schmid 1989
<i>Iguazu</i> Ross & King, 1951		2			Ross & King 1951
<i>Isochorema</i> Schmid, 1989		2			Schmid 1989
<i>Metachorema</i> Schmid, 1957		2			Schmid 1957
<i>Microchorema</i> Schmid, 1955		4			Schmid 1955a
<i>Neatopsyche</i> Schmid, 1955		5			Schmid 1955a

Taxón Taxon	Neotrópico Neotropics		Colombia Colombia		Referencias References
	Géneros Genera	Especies Species	Géneros Genera	Especies Species	
<i>Neochorema</i> Schmid, 1957		4			Schmid 1957
<i>Neopsilochorema</i> Schmid, 1955		1			Schmid 1955a
<i>Nolganema</i> Navás, 1934		1			Navás 1934a
<i>Parachorema</i> Schmid, 1957		1			Schmid 1957
<i>Pomphochorema</i> Flint, 1969		1			Flint 1969b
<i>Pseudoradema</i> Schmid, 1955		1			Schmid 1955a
<i>Rheochorema</i> Schmid, 1955		4			Schmid 1955a
<i>Schajovskoya</i> Flint, 1979		1			Flint 1979
<i>Stenochorema</i> Schmid, 1955		1			Schmid 1955a
Hydroptilidae	33	536 + 6†	10	41	
<i>Abtrichia</i> Mosely, 1939		2			Mosely 1939
<i>Acostatrichia</i> Mosely, 1939		5			Mosely 1939
<i>Alisotrichia</i> Flint, 1964		30 + 1†		2	Flint 1964
<i>Anchitrichia</i> Flint, 1970		4		1	Flint 1970
<i>Ascotrichia</i> Flint, 1983		2			Flint 1983
<i>Betrichia</i> Mosely, 1939		7			Mosely 1939
<i>Bredinia</i> Flint, 1968		3			Flint 1968b
<i>Byrsopteryx</i> Flint, 1981		13			Flint 1981
<i>Celaenotrichia</i> Mosely, 1934		1			Mosely 1934
<i>Cerasmatrachia</i> Flint, Harris & Botosaneanu, 1994		6		1	Flint <i>et al.</i> 1994
<i>Ceratotrichia</i> Flint, 1992		2			Flint 1992
<i>Costatrichia</i> Mosely, 1937		12			Mosely 1937
<i>Dicaminus</i> Müller, 1879		1			Müller 1879a
<i>Eutonella</i> Müller, 1921		1			Müller 1921
<i>Flintiella</i> Angrisano, 1995		1			Angrisano 1995
<i>Hydroptila</i> Dalman, 1819		61		7	Dalman 1819
<i>Ithytrichia</i> Eaton, 1873		1			Eaton 1873
<i>Kumanskiella</i> Harris & Flint, 1991		2			Harris & Flint 1992
<i>Leucotrichia</i> Mosely, 1934		20 + 1†		7	Mosely 1934
<i>Mayatrichia</i> Mosely, 1937		3			Mosely 1937
<i>Mejicanotrichia</i> Harris & Holzenthal, 1997		7			Harris & Holzenthal 1997
<i>Metrichia</i> Ross, 1938		57		9	Ross 1938a
<i>Neotrichia</i> Morton, 1905		84		2	Morton 1905
<i>Nothotrichia</i> Flint, 1967		2			Flint 1967a
<i>Ochrotrichia</i> Mosely, 1934		89 + 4†		3	Mosely 1934
<i>Orthotrichia</i> Eaton, 1873		3			Eaton 1873
<i>Oxyethira</i> Eaton, 1873		76		5	Eaton 1873
<i>Peltopsyche</i> Müller, 1879		2			Müller 1879b
<i>Rhyacopsyche</i> Müller, 1879		13		4	Müller 1879a
<i>Scelobotrichia</i> Harris & Bueno, 1993		3			Harris & Bueno 1993
<i>Taraxitrichia</i> Flint & Harris, 1992		1			Flint & Harris 1991
<i>Tricholeiochiton</i> Kloets & Hinks, 1944		1			Kloets & Hinks 1944
<i>Zumatrichia</i> Mosely, 1937		21			Mosely 1937
Rhyacophilidae	1	1			
<i>Rhyacophila</i> Pictet, 1834		1			Pictet 1834
Suborden ANNULIPALPIA	33 + 1†	899 + 7†	15	90	
Ecnomidae	2	37			
<i>Austrotinodes</i> Schmid, 1955		36			Schmid 1955a

Taxón Taxon	Neotrópico Neotropics		Colombia Colombia		Referencias References
	Géneros Genera	Especies Species	Géneros Genera	Especies Species	
<i>Chilocentropus</i> Navás, 1934		1			Navás 1934
Hydropsychidae	16 + 1†	368 + 1†	7	56	
<i>Blepharopus</i> Kolenati, 1859		1			Kolenati 1859
<i>Calosopsyche</i> Ross & Unzicker, 1977		13			Ross & Unzicker 1977
<i>Centromacronema</i> Ulmer, 1905		12		6	Ulmer 1905b
<i>Cheumatopsyche</i> Wallengren, 1891		5			Wallengren 1891
<i>Diplectrona</i> Westwood, 1839		2			Westwood 1839
<i>Hydropsyche</i> Pictet, 1834		6			Pictet 1834
<i>Leptonema</i> Guérin, 1843		100		21	Guérin 1843
<i>Macronema</i> Pictet, 1836		30		1	Pictet 1836
<i>Macrostemum</i> Kolenati, 1859		15		2	Kolenati 1859
<i>Mexipsyche</i> Ross & Unzicker, 1977		3			Ross & Unzicker 1977
† <i>Palaehydropsyche</i> Wichard, 1986		1†			Wichard 1986
<i>Plectromacronema</i> Ulmer, 1906		3			Ulmer 1906
<i>Plectropsyche</i> Ross, 1947		2			Ross 1947
<i>Pseudomacronema</i> Ulmer, 1905		1		1	Ulmer 1905a
<i>Smicridea</i> McLachlan, 1871		162		24	McLachlan 1871
<i>Streptospyche</i> Ross & Unzicker, 1977		3			Ross & Unzicker 1977
<i>Synoestropsis</i> Ulmer, 1905		10		1	Ulmer 1905a
Philopotamidae	4	266 + 5†	3	23	
<i>Chimarra</i> Stephens, 1829		222 + 5†		18	Stephens 1829
<i>Chimarrhodella</i> Lestage, 1925		9		2	Lestage 1925
<i>Dolophilodes</i> Ulmer, 1909		21			Ulmer 1909b
<i>Wormaldia</i> McLachlan, 1865		14		3	McLachlan 1865
Polycentropodidae	6	173 + 1†	3	7	
<i>Antillopsyche</i> Banks, 1941		4 + 1†			Banks 1941
<i>Cernotina</i> Ross, 1938		50			Ross 1938b
<i>Cyrnellus</i> Banks, 1913		9			Banks 1913b
<i>Nyctiophylax</i> Brauer, 1865		4		1	Brauer 1865
<i>Polycentropus</i> Curtis, 1835		64		3	Curtis 1835
<i>Polyplectropus</i> Ulmer, 1905		42		3	Ulmer 1905a
Psychomyiidae	1	1			
<i>Tinodes</i> Curtis, 1834		1			Curtis 1834
Stenopsychidae	1	3			
<i>Pseudostenopsyche</i> Döhler, 1915		3			Döhler 1915
Xiphocentronidae	3	51	2	4	
<i>Cnodocentron</i> Schmid, 1982		6		1	Schmid 1982
<i>Machairocentron</i> Schmid, 1982		5			Schmid 1982
<i>Xiphocentron</i> Brauer, 1870		40		3	Brauer 1870
Suborden INTEGRIPALPIA	50	431 + 5†	16	57	
Anomalopsychidae	2	22	1	7	
<i>Anomalopsyche</i> Flint, 1967		1			Flint 1967a
<i>Contulma</i> Flint, 1969		21		7	Flint 1969

Taxón Taxon	Neotrópico Neotropics		Colombia Colombia		Referencias References
	Géneros Genera	Especies Species	Géneros Genera	Especies Species	
Atriplectididae <i>Neotriplectides</i> Holzenthal, 1997	1	1			Holzenthal 1997
Calamoceratidae <i>Banyallarga</i> Navás, 1916 <i>Phylloicus</i> Müller, 1880	2	39 11 28	2	7 2 5	Navás 1916c Müller 1880
Helicophidae <i>Alloecentrellodes</i> Flint, 1979 <i>Austrocentrus</i> Schmid, 1964 <i>Eosericostruma</i> Schmid, 1955 <i>Microthremma</i> Schmid, 1955 <i>Pseudosericostruma</i> Schmid, 1957	5	13 2 3 2 5 1			Flint 1979 Schmid 1964 Schmid 1955a Schmid 1955a Schmid 1957
Helicopsychidae <i>Cochliopsche</i> Müller, 1885 <i>Helicopsycha</i> Siebold, 1856	2	73 + 3† 4 69 + 3†	2	6 1 5	Müller 1885 Siebold 1856
Kokiriidae <i>Pangullia</i> Navás, 1934	1	1 1			Navás 1934
Lepidostomatidae <i>Lepidostoma</i> Rambur, 1842	1	23 23			Rambur 1842
Leptoceridae <i>Achoropsyche</i> Holzenthal, 1984 <i>Amphoropsyche</i> Holzenthal, 1985 <i>Atanatolica</i> Mosely, 1936 <i>Brachysetodes</i> Schmid, 1955 <i>Grumichella</i> Müller, 1879 <i>Hudsonema</i> Mosely, 1936 <i>Mystacides</i> Berthold, 1827 <i>Nectopsyche</i> Müller, 1879 <i>Neoathripsodes</i> Holzenthal, 1989 <i>Notalina</i> Mosely, 1936 <i>Oecetis</i> McLachlan, 1877 <i>Setodes</i> Rambur, 1842 <i>Triaenodes</i> McLachlan, 1865 <i>Triplectides</i> Kolenati, 1859	14	149 + 2† 1 13 17 10 4 1 1 48 1 7 28 2† 5 13	9	30 1 6 5 2 7 1 4 2 2	Holzenthal 1984 Holzenthal 1985 Mosely 1936 Schmid 1955a Müller 1879a Mosely 1936 Berthold 1827 Müller 1879a Holzenthal 1989 Mosely 1936 McLachlan 1877 Rambur 1842 McLachlan 1865 Kolenati 1859
Limnephilidae <i>Anomalocosmoecus</i> Schmid, 1957 <i>Antarctoecia</i> Ulmer, 1907 <i>Austrocosmoecus</i> Schmid, 1955 <i>Clistoronia</i> Banks, 1916 <i>Hesperophylax</i> Banks, 1916 <i>Limnephilus</i> Leach, 1815 <i>Metacosmoecus</i> Schmid, 1955 <i>Monocosmoecus</i> Ulmer, 1906 <i>Platycosmoecus</i> Schmid, 1964 <i>Verger</i> Navás, 1918	10	50 4 1 1 1 2 13 1 6 1 20	1	1 1	Schmid 1957 Ulmer 1907b Schmid 1955b Banks 1916 Banks 1916 Leach 1815 Schmid 1955b Ulmer 1906 Schmid 1964 Navás 1918

Taxón Taxon	Neotrópico Neotropics		Colombia Colombia		Referencias References
	Géneros Genera	Especies Species	Géneros Genera	Especies Species	
Odontoceridae <i>Barypenthus</i> Burmeister, 1839 <i>Marilia</i> Müller, 1880	2	36 6 30	1	6 6	Burmeister 1839 Müller 1880
Philorheithridae <i>Mystacopsyche</i> Schmid, 1955 <i>Psilopsyche</i> Ulmer, 1907	2	5 2 3			Schmid 1955a Ulmer 1907c
Sericostomatidae <i>Chiloecia</i> Navás, 1930 <i>Grumicha</i> Müller, 1879 <i>Gumaga</i> Tsuda, 1938 <i>Myotrichia</i> Schmid, 1955 <i>Notidobiella</i> Schmid, 1955 <i>Parasericostoma</i> Schmid, 1957	6	17 1 1 1 1 3 10			Navás 1930 Müller 1879b Tsuda 1938 Schmid 1955a Schmid 1955a Schmid 1957
Tasimiidae <i>Charadropsyche</i> Flint, 1969 <i>Trichovespula</i> Schmid, 1955	2	2 1 1			Flint 1969 Schmid 1955a
TOTAL	153 + 1†	2197 + 21†	45	210	

Listado Taxonómico / Taxonomic List

Se presenta a continuación el listado de las especies de tricópteros conocidas para Colombia. Las familias, géneros, así como las especies, han sido ordenadas alfabéticamente, siguiendo el esquema presentado por Flint *et al.* (1999). En la columna Departamentos, los registros marcados con, o seguidos de un asterisco (*) representan localidades de colección sin información detallada. En la columna de colecciones se resaltan con **negrilla** las colecciones con material tipo depositado.

Las siglas utilizadas en la cuarta columna corresponden a las siguientes instituciones: **BMNH**, “British Museum of Natural History”, Londres (Inglaterra); **CAS**, “California Academy of Sciences”, San Francisco, CA. (E.U.A.); **CMNH**, “Carnegie Museum of Natural History”, Pittsburgh, PA. (E.U.A.); **CNC**, “Canadian National Collection”, Agriculture, Ottawa, ON. (Canadá); **Col. Apo.**, Apollinaris trabajó en Colombia y envió el material a Navás (presumiblemente perdido); **Col. Mal.**, colección privada de Hans Malicky (Lunz am See, Austria); **Col. Mar.**, colección privada de Martynov (en Warsaw, Polonia, material presumiblemente perdido); **Col. Nav.**, colección de Navás, parte del material transferido a **MZBS** (la mayor parte del material restante perdido); **Col. Wic.**, colección privada de Wilfried Wichard, Bonn (Alemania); **IBUNAM**, “Instituto de Biología, Universidad Nacional Autónoma de México”, México, D.F. (México); **INHS**, “Illinois Natural History Survey”, Champaign, IL. (E.U.A.); **IRSNB**, “Institut Royal des Sciences Naturelles de Belgique”, Bruselas (Bélgica); **IZAM**, “Instituto de Zoología Agrícola”, Maracay (Venezuela); **KMUL**, “Karl-Marx-University”, Leipzig, (Alemania); **MCZ**, “Museum of Comparative Zoology, Harvard University”, Cambridge, MA. (E.U.A.); **MNHNP**, “Muséum National d’Histoire Naturelle”, Paris (Francia); **NMNH**, “National Museum of Natural History, Smithsonian Institution”, Washington, D.C., E.U.A. (anteriormente abreviado **USNM**); **MZBS**, “Museo de Zoología”, Barcelona (España); **NMW**, “Naturhistorisches Museum”, Viena (Austria); **PAN**, “Polish Academy of Sciences”, Warsaw (Polonia); **RNH**, “Rijksmuseum van Natuurlijke Historie”, Leiden (Holanda); **UMSP**, “Insect Collection of the University of Minnesota”, St. Paul, MN. (E.U.A.); **USNM**, “United States National Museum, Smithsonian Institution” Washington, D.C., (E.U.A., también **NMNH**); **WSU**, “Washington State University”, Pullman, WA (E.U.A.); **ZMHU**, “Zoologisches Museum, Museum für Naturkunde der Humboldt-Universität”, Berlin, (Alemania); **ZSZMH**, “Zoologisches Staatsinstitut und Zoologisches Museum”, Hamburgo (Alemania); (? 1) ni tipo ni depositario fue designado; (? 2) depositario desconocido; (? 3) perdido; (? 4) tipo destruido; (? 5) depositario no especificado; (? Apo.) Colección Apollinaris, perdida; (? Nav.) Colección Navás, perdida.

Contains the Checklist of the known Trichoptera species for Colombia. The respective families and genera, as well as the species have been alphabetically ordered, following the format presented by Flint et al. (1999). In the Geopolitical distribution column, records marked by, or names followed by an asterisk symbol (*), represent collection localities without specific information. In the Collection column, the collections with type material deposited are denoted by **black type**.

The acronyms used in the fourth column correspond to the following depositary Institutions: **BMNH**, "British Museum of Natural History", London (England); **CAS**, "California Academy of Sciences", San Francisco, CA. (U.S.A.); **CMNH**, "Carnegie Museum of Natural History", Pittsburgh, PA. (U.S.A.); **CNC**, "Canadian National Collection", Agriculture, Ottawa, ON. (Canada); **Col. Apo.**, Apollinaris worked in Colombia and sent the specimens to Navás (the material presumed lost); **Col. Mal.**, private collection, Hans Malicky (Lunz am See, Austria); **Col. Mar.**, private collection, Martynov (Warsaw, Poland, the material presumed lost); **Col. Nav.**, collection of Navás (some transferred to **MZBS**, the other mostly lost); **Col. Wic.**, private collection, Wilfried Wichard, Bonn (Germany); **IBUNAM**, "Instituto de Biología, Universidad Nacional Autónoma de México", México, D.F. (Mexico); **INHS**, "Illinois Natural History Survey", Champaign, IL. (U.S.A.); **IRSNB**, "Institut Royal des Sciences Naturelles de Belgique", Brussels (Belgium); **IZAM**, "Instituto de Zoología Agrícola", Maracay (Venezuela); **KMUL**, "97Karl-Marx-University", Leipzig, (Germany); **MCZ**, "Museum of Comparative Zoology, Harvard University", Cambridge, MA. (U.S.A.); **MNHNP**, "Muséum National d'Histoire Naturelle", Paris (France); **NMNH**, "National Museum of Natural History, Smithsonian Institution", Washington, D.C., U.S.A., before **USNM**; **MZBS**, "Museo de Zoología", Barcelona (Spain); **NMW**, "Naturhistorisches Museum", Vienna (Austria); **PAN**, "Polish Academy of Sciences", Warsaw (Poland); **RNH**, "Rijksmuseum van Natuurlijke Historie", Leiden (Netherlands); **UMSP**, "Insect Collection of the University of Minnesota", St. Paul, MN. (U.S.A.); **USNM**, "United States National Museum, Smithsonian Institution" Washington, D.C., (U.S.A., also **NMNH**); **WSU**, "Washington State University", Pullman, WA (U.S.A.); **ZMHU**, "Zoologisches Museum, Museum für Naturkunde der Humboldt-Universität", Berlin, (Germany); **ZSZMH**, "Zoologisches Staatsinstitut und Zoologisches Museum", Hamburgo (Germany); (? 1) no type nor type depositary designated; (? 2) type depositary unknown; (? 3) now lost; (? 4) type destroyed; (? 5) depositary unspecified; (? Apo.) Colección Apollinaris, now lost; (? Nav.) Colección Navás, now lost.

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection for Reference	Referencia Bibliográfica Bibliographic Reference
ANOMALOPSYCHIDAE				
Contulma Flint, 1969				Flint 1969
<i>Contulma caldensis</i> Holzenthal & Flint, 1995	cl	3600-4100	NMNH	Holzenthal & Flint 1995
<i>Contulma colombiensis</i> Holzenthal & Flint, 1991	ant cho	2000	NMNH	Flint 1991
<i>Contulma echinata</i> Holzenthal & Flint, 1995	cl	3200	NMNH	Holzenthal & Flint 1995
<i>Contulma inornata</i> Holzenthal & Flint, 1995	cl	3200	NMNH	Holzenthal & Flint 1995
<i>Contulma nevada</i> Holzenthal & Flint, 1995	cl	4100	NMNH	Holzenthal & Flint 1995
<i>Contulma penai</i> Holzenthal & Flint, 1995	ant		NMNH	Holzenthal & Flint 1995
<i>Contulma spinosa</i> Holzenthal & Flint, 1991	ant by cun	2650-2700	NMNH	Flint 1991
CALAMOCERATIDAE				
Banyallarga Navás, 1916				Navás 1916c
<i>Banyallarga columbiana</i> (Navás), 1934	snt [Pamplona]	2300	MNHNP	Navás 1934
<i>Banyallarga testacea</i> Navás, 1916	by [Muzo]		(? Apo.)	Navás 1916c
Phylloicus Müller, 1880				Müller 1880
<i>Phylloicus angustior</i> Ulmer, 1905	ant		NMW, NMNH, UNCM	Ulmer 1905b
<i>Phylloicus crenatus</i> (Navás), 1916	by [Muzo]		(? Apo.)	Navás 1916c
<i>Phylloicus elegans</i> Hogue & Denning, 1983	ant	780-1450	WSU, NMNH	Denning et al. 1983
<i>Phylloicus lituratus</i> Banks, 1920	to [Mariquita]		MCZ	Banks 1920

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection for Reference	Referencia Bibliográfica Bibliographic Reference
<i>Phylloicus magnus</i> Banks, 1913	to	3600	MCZ	Banks 1913a
GLOSSOSOMATIDAE				
<i>Mexitrichia</i> Mosely, 1937				Mosely 1937
<i>Mexitrichia elongata</i> Flint, 1963	ant vc	1300-1750	NMNH	Flint 1963
<i>Mexitrichia leei</i> Flint, 1974	ant cho vc		NMNH	Flint 1974c
<i>Mexitrichia macarenica</i> Flint, 1974	met		NMNH	Flint 1974c
<i>Mexitrichia pacuara</i> Flint, 1974	vc		NMNH	Flint 1974c
<i>Mexitrichia spinulata</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Mexitrichia velasquezi</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Mortoniella</i> Ulmer, 1906				Ulmer 1906
<i>Mortoniella bilineata</i> Ulmer, 1906	ant	1600	RNH, NMNH	Ulmer 1906
<i>Mortoniella enchrysa</i> Flint, 1991	ant ri vc	1540-2150	NMNH	Flint 1991
<i>Mortoniella foersteri</i> (Schmid), 1964	cun	1420	NMNH o CNC	Schmid 1964
<i>Mortoniella iridescens</i> Flint, 1991	ant	2000	NMNH	Flint 1991
<i>Mortoniella roldani</i> Flint, 1991	ant met		NMNH	Flint 1991
<i>Protoptila</i> Banks, 1904				Banks 1904
<i>Protoptila colombiensis</i> Flint, 1974	vc		NMNH	Flint 1974c
<i>Protoptila curiosa</i> Flint, 1974	vc		NMNH	Flint 1974c
<i>Protoptila fimbriata</i> Flint, 1981	ant met		NMNH	Flint 1981
<i>Protoptila orotina raposa</i> Flint, 1974	vc		NMNH	Flint 1974c
<i>Protoptila voluta</i> Flint, 1991	ant	780	NMNH	Flint 1991
<i>Protoptila yurumanga</i> Flint, 1974	vc		NMNH	Flint 1974c
HELICOPSYCHIDAE				
<i>Cochliopsyche</i> Müller, 1885				Müller 1885
<i>Cochliopsyche vasquezae</i> Flint, 1986	ant		NMNH	Flint 1986
<i>Helicopsyche</i> Siebold, 1856				Siebold 1856
<i>Helicopsyche angulata</i> Flint, 1981	ant met snt vc	1300-1750	NMNH	Flint 1981
<i>Helicopsyche breviterga</i> Flint, 1991	ant	2150	NMNH	Flint 1991
<i>Helicopsyche colombiensis</i> Siebold, 1856	Pto. Cabello*		(? 1)	Siebold 1856
<i>Helicopsyche fistulata</i> Flint, 1991	ant cho	2150	NMNH	Flint 1991
<i>Helicopsyche vergelana</i> Ross, 1956	ant to	780	INHS, NMNH	Ross 1956b
HYDROBIOSIDAE				
<i>Atopsyche</i> Banks, 1905				Banks 1905
<i>Atopsyche (Atopsyche) banksi</i> Ross, 1953	ri, San Antonio*	1800	MCZ	Ross 1953
<i>Atopsyche (Atopsyche) bolivari</i> Banks, 1924	to	3800	MCZ	Banks 1924
<i>Atopsyche (Atopsaura) callosa</i> (Navás), 1924	ant met ri snt	1450-2150	MNHNP, NMNH	Navás 1924b
<i>Atopsyche (Atopsaura) clarkei</i> Flint, 1963	cun	2800	NMNH	Flint 1963
<i>Atopsyche (Atopsyche) tampurimac</i> Schmid, 1989	ant		NMNH	Schmid 1989
HYDROPSYCHIDAE				
<i>Centromacronema</i> Ulmer, 1905				Ulmer 1905b
<i>Centromacronema apicale</i> (Walker), 1852	ant	1450-2150	BMNH, NMNH,	Walker 1852

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection for Reference	Referencia Bibliográfica Bibliographic Reference
<i>Centromacronema auripenne</i> (Rambur), 1842 <i>Centromacronema dentatum</i> Navás, 1924 <i>Centromacronema excisum</i> (Ulmer), 1905 <i>Centromacronema nigrifrons</i> Banks, 1913 <i>Centromacronema oculatum</i> (Walker), 1852	vc ant cho ant *	800	UNCM IRSNB (? Nav.) PAN , NMNH, UNCM MCZ BMNH	Rambur 1842 Navás 1924a Ulmer 1905a Banks 1913a Walker 1852
Leptonema Guérin, 1843 <i>Leptonema albiovirens</i> (Walker), 1852	ant cun met to vc	780-1750	BMNH , NMNH, UNCM	Guérin 1843 Walker 1852
<i>Leptonema andinum</i> Flint, 1991 <i>Leptonema banksi</i> Mosely, 1933 <i>Leptonema bilobatum</i> Schmid, 1964 <i>Leptonema cheesmanae</i> Mosely, 1933	ant vc cun cun gor vc	1300 1400 1600	NMNH MCZ CNC BMNH , NMNH, UMSP	Flint 1991 Mosely 1933 Schmid 1964 Mosely 1933
<i>Leptonema chocoense</i> Flint, McAlpine & Ross, 1987 <i>Leptonema cinctum</i> Ulmer, 1905 <i>Leptonema columbianum</i> Ulmer, 1905	cho ant cho ant ama cq cho cun met		NMNH PAN , NMNH, UNCM PAN , NMNH, UNCM	Flint <i>et al.</i> 1987 Ulmer 1905a Ulmer 1905a
<i>Leptonema crassum</i> Ulmer, 1905 <i>Leptonema divaricatum</i> Flint, McAlpine & Ross, 1987 <i>Leptonema intermedium</i> Mosely, 1933	met ant cq cun met vc	500 400-1000 1000	ZSZMH , NMNH, INHS NMNH , INHS, UNCM ZSZMH , NMNH, INHS	Ulmer 1905a Flint <i>et al.</i> 1987 Mosely 1933
<i>Leptonema naevosum</i> Navás, 1916 <i>Leptonema neadelphus</i> Flint, McAlpine & Ross, 1987 <i>Leptonema nygmosum</i> Navás, 1916 <i>Leptonema rosenbergi</i> Mosely, 1933 <i>Leptonema sinuatum</i> Mosely, 1933	cun [Choachí] ant cun [Choachí] vc gor		(? Apo.) NMNH , UNCM (? Nav.) ZSZMH , NMNH BMNH , NMNH, INHS	Navás 1916b Flint <i>et al.</i> 1987 Navás 1916b Mosely 1933 Mosely 1933
<i>Leptonema spirillum</i> Flint, McAlpine & Ross, 1987 <i>Leptonema stigmosum</i> Ulmer, 1905 <i>Leptonema tripartitum</i> Flint, McAlpine & Ross, 1987 <i>Leptonema uncatum</i> Mosely, 1933 <i>Leptonema viridianum</i> Navás, 1916	ant met ri vc ant cun vc ant ma met, Sozonoco* cq met	1550-1750 1400-1800 1450-2450 800 430-500	NMNH , INHS, UNCM PAN , NMNH NMNH , UNCM MCZ , NMNH (? Nav.)	Flint <i>et al.</i> 1987 Ulmer 1905a Flint <i>et al.</i> 1987 Mosely 1933 Navás 1916a
Macronema Pictet, 1836 <i>Macronema hageni</i> Banks, 1924	ant		MCZ , NMNH, UNCM	Pictet 1836 Banks 1924
Macrostemum Kolenati, 1859 <i>Macrostemum hyalinum</i> (Pictet), 1836 <i>Macrostemum ulmeri</i> (Banks), 1913	ant	500	(? 2) MCZ , UNCM	Kolenati 1859 Pictet 1836 Banks 1913a
Pseudomacronema Ulmer, 1905 <i>Pseudomacronema vittatum</i> Ulmer, 1905	cun		ZSZMH	Ulmer 1905a Ulmer 1905a
Smicridea McLachlan, 1871 <i>Smicridea (Rhyacophylax) acuminata</i> Flint, 1974	ant cun	1000	NMNH , UNCM	McLachlan 1871 Flint 1974b

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection for Reference	Referencia Bibliográfica Bibliographic Reference
<i>Smicridea (Rhyacophylax) andicola</i> Flint, 1991	ant met		NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) aurra</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Smicridea biserrulata</i> Flint, 1991	ant cho cau ri snt	1450-1800	NMNH	Flint 1991
<i>Smicridea (Smicridea) bivittata</i> (Hagen), 1861	ant cho ri vc	780	MCZ, NMNH, UMSP	Hagen 1861
<i>Smicridea (Smicridea) breviuncata</i> Flint, 1974	ant cho	2000	NMNH	Flint 1974b
<i>Smicridea (Rhyacophylax) columbiana</i> (Ulmer), 1905	*		ZSZMH, NMNH	Ulmer 1905a
<i>Smicridea (Smicridea) conjuncta</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Smicridea (Smicridea) curvipennis</i> Flint, 1991	ant		NMNH, UNCM	Flint 1991
<i>Smicridea (Smicridea) gemina</i> Blahnik, 1995	vc		NMNH	Blahnik 1995
<i>Smicridea (Smicridea) grandisaccata</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) magdalenae</i> Flint, 1991	ant cun to	1000	NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) magnipinnata</i> Flint, 1991	ant	2000-2500	NMNH	Flint 1991
<i>Smicridea (Smicridea) microsaccata</i> Flint, 1991	ant	2000-2500	NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) murina</i> McLachlan, 1871	ant	1450	BMNH, NMNH	McLachlan 1871
<i>Smicridea (Smicridea) nigricans</i> Flint, 1991	ant na	2100	NMNH, INHS	Flint 1991
<i>Smicridea (Smicridea) nigripennis</i> Banks, 1920	ant cl vc	780-1450	MCZ, NMNH	Banks 1920
<i>Smicridea (Smicridea) polyfasciata</i> Martynov, 1912	ant vc	1100-2000	(? 3), MNMH, UNCM	Martynov 1912
<i>Smicridea (Rhyacophylax) probolophora</i> Flint, 1991	ant cho	1450	NMNH	Flint 1991
<i>Smicridea (Smicridea) prorigera</i> Flint, 1991	ant cho	1750-2150	NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) pseudoradula</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Smicridea (Smicridea) ruginasa</i> Flint, 1991	ant	1450	NMNH	Flint 1991
<i>Smicridea (Smicridea) urra</i> Flint, 1991	ant	2000-2500	NMNH	Flint 1991
<i>Smicridea (Rhyacophylax) ventridenticulata</i> Flint, 1991	ant ri snt	2150	NMNH	Flint 1991
<i>Synoestropsis</i> Ulmer, 1905				Ulmer 1905a
<i>Synoestropsis punctipennis</i> Ulmer, 1905	cun		ZSZMH	Ulmer 1905a
HYDROPTILIDAE				
<i>Alisotrichia</i> Flint, 1964				Flint 1964
<i>Alisotrichia latipalpis</i> Flint, 1991	ant	780	NMNH	Flint 1991
<i>Alisotrichia ventricosa</i> Flint, 1991	ant	780	NMNH	Flint 1991
<i>Anchitrichia</i> Flint, 1970				Flint 1970
<i>Anchitrichia palmatiloba</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Cerasmatrichia</i> Flint, Harris & Botosaneanu, 1994				Flint <i>et al.</i> 1994
<i>Cerasmatrichia adunca</i> (Flint), 1991	ant		NMNH	Flint 1991
<i>Hydroptila</i> Dalman, 1819				Dalman 1819
<i>Hydroptila constricta</i> Bueno-S., 1984	ant	1750-2150	BMNH, NMNH	Bueno-S. 1984
<i>Hydroptila grenadensis</i> Flint, 1968	*		NMNH	Flint 1968
<i>Hydroptila helicina</i> Flint, 1991	ant ri	1750	NMNH	Flint 1991
<i>Hydroptila inornata</i> Flint, 1991	ant	2150	NMNH	Flint 1991

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection for Reference	Referencia Bibliográfica Bibliographic Reference
<i>Hydroptila narifer</i> Flint, 1991	ant	780-1750	NMNH	Flint 1991
<i>Hydroptila spada</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Hydroptila unicuspis</i> Flint, 1991	ant	2150	NMNH	Flint 1991
Leucotrichia Mosely, 1934				Mosely 1934
<i>Leucotrichia ayura</i> Flint, 1991	ant	1750	NMNH	Flint 1991
<i>Leucotrichia brochophora</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Leucotrichia fairchildi</i> Flint, 1970	ant to	780	MCZ, NMNH	Flint 1970
<i>Leucotrichia inops</i> Flint, 1991	ant na	2100	NMNH, INHS	Flint 1991
<i>Leucotrichia interrupta</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Leucotrichia mutica</i> Flint, 1991	ant	1450	NMNH	Flint 1991
<i>Leucotrichia padera</i> Flint, 1991	ant		NMNH	Flint 1991
Metrichia Ross, 1938				Ross 1938a
<i>Metrichia anisoscola</i> (Flint), 1991	ant	1750	NMNH	Flint 1991
<i>Metrichia bola</i> (Flint), 1991	ant	2150	NMNH	Flint 1991
<i>Metrichia cuspidata</i> (Flint), 1991	ant		NMNH	Flint 1991
<i>Metrichia lenophora</i> (Flint), 1991	ant		NMNH	Flint 1991
<i>Metrichia macrophallata</i> (Flint), 1991	ant	1450	NMNH	Flint 1991
<i>Metrichia malada</i> (Flint), 1991	ant	1750-2150	NMNH	Flint 1991
<i>Metrichia protrudens</i> (Flint), 1991	ant	780-2150	NMNH	Flint 1991
<i>Metrichia rona</i> (Flint), 1991	ant	1450	NMNH	Flint 1991
<i>Metrichia sacculifera</i> (Flint), 1991	ant	1450	NMNH	Flint 1991
Neotrichia Morton, 1905				Morton 1905
<i>Neotrichia colombiensis</i> Harris, 1990	ant	780	NMNH	Harris 1990
<i>Neotrichia tauricornis</i> Malicky, 1980	ant	780-2150	Col. Mal., NMNH	Malicky 1980
Ochrotrichia Mosely, 1934				Mosely 1934
<i>Ochrotrichia ecuatoriana</i> Bueno-S. & Santiago-F., 1992	vc		NMNH	Bueno-S. & Santiago-F. 1992
<i>Ochrotrichia raposa</i> Bueno-S. & Santiago-F., 1992	vc		NMNH	Bueno-S. & Santiago-F. 1992
<i>Ochrotrichia unica</i> Bueno-S. & Santiago-F., 1992	vc		NMNH	Bueno-S. & Santiago-F. 1992
Oxyethira Eaton, 1873				Eaton 1873
<i>Oxyethira</i> (unplaced) <i>absona</i> Flint, 1991	ant	2150	NMNH	Flint 1991
<i>Oxyethira</i> (<i>Loxotrichia</i>) <i>azteca</i> (Mosely), 1937	*		BMNH, NMNH	Mosely 1937
<i>Oxyethira</i> (<i>Tanytrichia</i>) <i>colombiensis</i> Kelley, 1983	vc		NMNH	Kelley 1983
<i>Oxyethira</i> (<i>Oxytrichia</i>) <i>maryae</i> Kelley, 1983	met		NMNH	Kelley 1983
<i>Oxyethira</i> (<i>Loxotrichia</i>) <i>parce</i> (Edwards & Arnold), 1961	ant cho met vc	1450-1750	(? 4), NMNH, UMSP	Edwards & Arnold 1961
Rhyacopsyche Müller, 1879				Müller 1879a
<i>Rhyacopsyche andina</i> Flint, 1991	ant vc	1400	NMNH	Flint 1991
<i>Rhyacopsyche jimena</i> Flint, 1991	ant	780	NMNH	Flint 1991
<i>Rhyacopsyche mathiasii</i> Flint, 1991	ant	2000-2500	NMNH	Flint 1991
<i>Rhyacopsyche mutisi</i> Mey & Joost, 1990	to	500	KMUL	Mey & Joost 1990
LEPTOCERIDAE				
Achoropsyche Holzenthal, 1984				Holzenthal 1984
<i>Achoropsyche duodecimpunctata</i> (Navás), 1916	*		(? Nav.)	Navás 1916a

Taxón <i>Taxon</i>	Departamentos <i>Geopolitical Distribution</i>	Altitud <i>Elevation</i>	Colección de Referencia <i>Collection for Reference</i>	Referencia Bibliográfica <i>Bibliographic Reference</i>
<i>Amphoropsyche</i> Holzenthal, 1985				Holzenthal 1985
<i>Amphoropsyche ayura</i> Holzenthal, 1985	ant	1750	NMNH	Holzenthal 1985
<i>Amphoropsyche cauca</i> Holzenthal, 1985	ant	2000	NMNH	Holzenthal 1985
<i>Amphoropsyche choco</i> Holzenthal, 1985	cho		NMNH	Holzenthal 1985
<i>Amphoropsyche flinti</i> Holzenthal, 1985	ant cun	2700	NMNH, INHS	Holzenthal 1985
<i>Amphoropsyche quebrada</i> Holzenthal, 1985	ant	2150	NMNH	Holzenthal 1985
<i>Amphoropsyche stellata</i> Holzenthal, 1985	ri		NMNH	Holzenthal 1985
<i>Atanotolica</i> Mosely, 1936				Mosely 1936
<i>Atanotolica aurea</i> Holzenthal, 1988	ant		NMNH	Holzenthal 1988b
<i>Atanotolica caldas</i> Holzenthal, 1988	cl	3200	NMNH	Holzenthal 1988b
<i>Atanotolica choco</i> Holzenthal, 1988	cho		NMNH	Holzenthal 1988b
<i>Atanotolica nigra</i> Holzenthal, 1988	cl	3800	NMNH	Holzenthal 1988b
<i>Atanotolica nivea</i> Holzenthal, 1988	ri		NMNH	Holzenthal 1988b
<i>Grumichella</i> Müller, 1879				Müller 1879a
<i>Grumichella flaveola</i> (Ulmer), 1911	ant cun ri snt		ZMHU, NMNH, UNCM	Ulmer 1911
<i>Grumichella pulchella</i> (Banks), 1910	to		MCZ	Banks 1910
<i>Nectopsyche</i> Müller, 1879				Müller 1879a
<i>Nectopsyche argentata</i> Flint, 1991	ant	1450	NMNH	Flint 1991
<i>Nectopsyche dorsalis</i> (Banks), 1901	ant	1450	MCZ, NMNH, UNCM	Banks 1901
<i>Nectopsyche gemma</i> (Müller), 1880	ant cau		(? 1), NMNH, UMSP	Müller 1880
<i>Nectopsyche gemmoides</i> Flint, 1981	ma		NMNH, MCZ	Flint 1981
<i>Nectopsyche nigricapilla</i> (Navás), 1920	*		MZBS	Navás 1920
<i>Nectopsyche punctata</i> (Ulmer), 1905	ama ant cho	1450-1600	NMW, NMNH, UNCM	Ulmer 1905b
<i>Nectopsyche splendida</i> (Navás), 1917	cq met *		(? Nav.)	Navás 1917
<i>Notalina</i> Mosely, 1936				Mosely 1936
<i>Notalina matthiasi</i> Holzenthal, 1986	ant by	2150-2500	NMNH	Holzenthal 1986
<i>Oecetis</i> McLachlan, 1877				McLachlan 1877
<i>Oecetis avara</i> (Banks), 1895	ant to	1450	MCZ, NMNH	Banks 1895
<i>Oecetis inconspicua</i> (Walker), 1852	ant met to		BMNH, NMNH	Walker 1852
<i>Oecetis knutsoni</i> Flint, 1981	ant	1600-2150	NMNH	Flint 1981
<i>Oecetis puntipennis</i> (Ulmer), 1905	*		NMW, NMNH	Ulmer 1905b
<i>Triaenodes</i> McLachlan, 1865				McLachlan 1865
<i>Triaenodes abruptus</i> Flint, 1991	ant	1750	NMNH	Flint 1991
<i>Triaenodes columbicus</i> Ulmer, 1909	*		PAN	Ulmer 1909b
<i>Triplectides</i> Kolenati, 1859				Kolenati 1859
<i>Triplectides colombicus</i> Navás, 1916	cun [Choachí]		(? 1)	Navás 1916b
<i>Triplectides flintorum</i> Holzenthal, 1988	ant cun	1450-2150	NMNH, UNCM	Holzenthal 1988a
LIMNEPHILIDAE				
<i>Anomalocosmoecus</i> Schmid, 1957				Schmid 1957
<i>Anomalocosmoecus illiesi</i> (Marlier), 1962	cau	3800	IRSNB, NMNH	Marlier 1962

Taxón Taxon	Departamentos Geopolitical Distribution	Altitud Elevation	Colección de Referencia Collection of Reference	Referencia Bibliográfica Bibliographic Reference
ODONTOCERIDAE				
<i>Marilia</i> Müller, 1880				Müller 1880
<i>Marilia flexuosa</i> Ulmer, 1905	ant vc	2150	NMW, NMNH	Ulmer 1905b
<i>Marilia gigas</i> Flint, 1991	ant	2150	NMNH	Flint 1991
<i>Marilia guaira</i> Flint, 1983	*		NMNH	Flint 1983
<i>Marilia lateralis</i> Flint, 1983	met		NMNH	Flint 1983
<i>Marilia microps</i> Flint, 1991	ant cho	2000	NMNH	Flint 1991
<i>Marilia modesta</i> Banks, 1913	met	450	MCZ	Banks 1913a
PHILOPOTAMIDAE				
<i>Chimarra</i> Stephens, 1829				Stephens 1829
<i>Chimarra (Chimarra) angustipennis</i> (Banks), 1903	to		NMNH	Banks 1903
<i>Chimarra (Curgia) barinita</i> Flint, 1998	ma	2000	NMNH, CMNH, IZAM	Flint 1998
<i>Chimarra (Chimarra) chocoensis</i> Blahnik, 1998	cho		NMNH	Blahnik 1998
<i>Chimarra (Chimarra) decimlobata</i> Flint, 1991	ant ri	1750	NMNH	Flint 1991
<i>Chimarra (Chimarra) dolabrifera</i> Flint & Reyes-A., 1991	ant	1450	NMNH	Flint & Reyes-A. 1991
<i>Chimarra (Chimarra) duckworthi</i> Flint, 1967	ant	780	NMNH	Flint 1967a
<i>Chimarra (Chimarra) emima</i> Ross, 1959	ant ri to	780-1450	INHS, NMNH	Ross 1959
<i>Chimarra (Chimarra) flinti</i> Bueno-S., 1985	to		IBUNAM, NMNH	Bueno-S. 1985
<i>Chimarra (Curgia) geranoides</i> Flint, 1998	na ri	1800	NMNH, UMSP	Flint 1998
<i>Chimarra (Curgia) immaculata</i> (Ulmer), 1911	cq	430	ZMHU, NMNH	Flint 1998
<i>Chimarra (Curgia) margaritae</i> Flint, 1991	ant vc	1600-2000	NMNH, UNCM	Flint 1991
<i>Chimarra (Curgia) minca</i> Flint, 1998	ma		NMNH, CMNH	Flint 1998
<i>Chimarra (Chimarra) onima</i> Flint, 1991	ant vc	1300-1450	NMNH	Flint 1991
<i>Chimarra (Curgia) peytoni</i> Flint, 1998	to		NMNH	Flint 1998
<i>Chimarra (Chimarra) platyrhina</i> Flint, 1981	ant ma	780-2000	NMNH	Flint 1981
<i>Chimarra</i> (undescribed) <i>septemlobata</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Chimarra (Chimarra) wilcuma</i> Blahnik, 1998	ma	2000	NMNH	Blahnik 1998
<i>Chimarra (Chimarra) xus</i> Blahnik, 1998	cho		NMNH	Blahnik 1998
<i>Chimarrhodella</i> Lestage, 1925				Lestage 1925
<i>Chimarrhodella peruviana</i> (Ross), 1956	ant	2000	INHS, NMNH, UNCM	Ross 1956a
<i>Chimarrhodella ulmeri</i> (Ross), 1956	met		ZSZMH, NMNH	Ross 1956a
<i>Wormaldia</i> McLachlan, 1865				McLachlan 1865
<i>Wormaldia palma</i> Flint, 1991	ant		NMNH	Flint 1991
<i>Wormaldia planae</i> Ross & King, 1956	ant met ri vc	780-1450	INHS, NMNH	Ross 1956a
<i>Wormaldia prolixa</i> Flint, 1991	ant	1450-2150	NMNH	Flint 1991
POLYCENTROPODIDAE				
<i>Nyctiophylax</i> Brauer, 1865				Brauer 1865
<i>Nyctiophylax neotropicalis</i> Flint, 1971	cun	1000	NMNH	Flint 1971
<i>Polycentropus</i> Curtis, 1835				Curtis 1835
<i>Polycentropus ceciliae</i> Flint, 1991	ant	1450	NMNH	Flint 1991

Taxón <i>Taxon</i>	Departamentos <i>Geopolitical Distribution</i>	Altitud <i>Elevation</i>	Colección de Referencia <i>Collection for Reference</i>	Referencia Bibliográfica <i>Bibliographic Reference</i>
<i>Polycentropus joergenseni</i> Ulmer, 1909 <i>Polycentropus unispinus</i> Flint, 1991	to ant		ZSZMH, MCZ NMNH	Ulmer 1909a Flint 1991
<i>Polyplectropus</i> Ulmer, 1905 <i>Polyplectropus costalis</i> (Banks), 1913 <i>Polyplectropus laminatus</i> (Yamamoto), 1966 <i>Polyplectropus recurvatus</i> (Yamamoto), 1966	to ant vc to		MCZ CAS, NMNH CAS, NMNH	Ulmer 1905a Banks 1913a Yamamoto 1966 Yamamoto 1966
XIPHOCENTRONIDAE				
<i>Cnodocentron</i> Schmid, 1982 <i>Cnodocentron (Caenocentron) immaculatum</i> Flint, 1991	ant	780	NMNH	Schmid 1982 Flint 1991
<i>Xiphocentron</i> Brauer, 1870 <i>Xiphocentron (Antillotrichia) mneusteus</i> Schmid, 1982	ant ri	1750-2150	NMNH	Brauer 1870 Schmid 1982
<i>Xiphocentron (Antillotrichia) regulare</i> Flint, 1991 <i>Xiphocentron (Antillotrichia) sturmi</i> Sturm, 1960	ant vc	2000	NMNH (? 5), Col. Mal.	Flint 1991 Sturm 1960

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Literatura Citada / Literature Cited

- Angrisano E.B. (1995) Contribución al conocimiento de los Trichoptera del Uruguay. II. Hydroptilidae *Revista Brasileira de Entomologia* 39(3):501-516
- Banks N. (1895) New neuropteroid insects *Transactions of the American Entomological Society* 22:313-316
- Banks N. (1901) A list of neuropteroid insects from Mexico *Transactions of the American Entomological Society* 27:361-371
- Banks N. (1903) Neuropteroid insects from Arizona *Proceedings of the Entomological Society of Washington* 5:237-245
- Banks N. (1904) A list of new neuropteroid insects, exclusive of Odonata, from the vicinity of Washington, D.C. *Proceedings of the Entomological Society of Washington* 6:201-217
- Banks N. (1905) Descriptions of new Nearctic neuropteroid insects *Transactions of the American Entomological Society* 32:1-20
- Banks N. (1910) New South American neuropteroid insects *Proceedings of the Entomological Society of Washington* 12:146-160
- Banks N. (1913a) Synopses and descriptions of exotic Neuroptera *Transactions of the American Entomological Society* 39:201-242
- Banks N. (1913b) Neuropteroid insects from Brazil *Psyche* 20:83-89
- Banks N. (1916) A classification of our limnephilid caddice flies *The Canadian Entomologist* 48:117-122
- Banks N. (1920) New neuropteroid insects *Bulletin of the Museum of Comparative Zoology* 64(3):299-362

- Banks N. (1924) Descriptions of new neuropteroid insects *Bulletin of the Museum of Comparative Zoology* 65(12):421-455
- Banks N. (1941) New neuropteroid insects from the Antilles *Memorias de la Sociedad Cubana de Historia Natural* 15(4):385-402
- Berthold A.A. (1827) *Natliche Familien des Thierreichs mit Anmerkungen und Zustzen* Weimar, 602 pp.
- Blahnik R.J. (1995) New species of *Smicridea* (subgenus *Smicridea*) from Costa Rica, with a revision of the *fasciatella* complex (Trichoptera: Hydropsychidae) *Journal of the North American Benthological Society* 14(1):84-107
- Blahnik R.J. (1998) A revision of the Neotropical species of the genus *Chimarra*, subgenus *Chimarra* (Trichoptera: Philopotamidae) *Memoirs of the American Entomological Institute* 59:1-318
- Botosaneanu L., J. Sykora (1973) Sur quelques Trichoptères (Insecta: Trichoptera) de Cuba pp. 379-407 En: *Résultats des Expéditions Biospéologiques cubano-roumaines à Cuba, 1*. Bucurest: Editura Academiei Republicii Socialiste România
- Brauer F. (1865) Zweite berichte über die auf der Weltfahrt der Kais. Fregatte Novara gesammelten Neuropteren *Verhandlungen der Kaiserlich-königlichen Zoologischen-Botanischen Gesellschaft in Wien* 15:415-422
- Brauer F. (1870) Ueber *Xiphocentron*, eine neue Hydropsychidengattung *Verhandlungen der Kaiserlich-königlichen Zoologischen-Botanischen Gesellschaft in Wien* 20:66
- Bueno-S. J. (1984) Estudios en insectos acuáticos II. Revisión para México y Centroamérica del género *Hydroptila* Dalman, 1819 (Trichoptera, Hydroptilidae) *Folia Entomológica Mexicana* 59:79-138
- Bueno-S. J. (1985) Estudios en insectos acuáticos (III). Cinco nuevas especies de *Chimarra* Stephens (1829) de México y Centroamérica. (Trichoptera: Philopotamidae) *Folia Entomológica Mexicana* 63:13-23
- Bueno-S. J., S. Santiago de F. (1992) Studies in aquatic insects, XI: Seven new species of the genus *Ochrotrichia* (*Ochrotrichia*) from South America (Trichoptera: Hydroptilidae) *Proceedings of the Entomological Society of Washington* 94(4):439-446
- Burmeister H. (1839) *Handbuch der Entomologie* (Zweiter Band) Zweite Ubtheilung, Berlin: Theod. Chr. Friedr. Enslin. 397-1050pp.
- Curtis J. (1834) Descriptions of some nondescript British species of may-flies of anglers *London and Edinburgh Philosophical Magazine and Journal of Science* (series 3) 4:120-125, 212-218
- Curtis J. (1835) Trichoptera láminas 540, 544, 561 En: *British Entomology* (London) Vol. 12: Láminas 530-577
- Dalman J.W. (1819) Några nya insekt-genera, beskrifna *Kongliga Vetenskaps-Akadamiens Handlingar* 40:117-127
- Denning D.G., V.H. Resh, C.L. Hogue (1983) New species of *Phylloicus* and a new Neotropical genus of Calamoceratidae (Trichoptera) *Aquatic Insects* 5(3):181-191
- Döhler W. (1915) Die aussereuropäischen Trichopteren der Leipziger Universitäts-Sammlung *Deutsche Entomologische Zeitschrift* 1915:397-412
- Eaton A.E. (1873) On the Hydroptilidae, a family of the Trichoptera *Transactions of the Entomological Society of London* 1873:125-151
- Edwards S.W., C.R. Arnold (1961) The caddis flies of the San Marcos River *The Texas Journal of Science* 13:398-415
- Fischer F.C.J. (1961) *Trichopterorum Catalogus: Philopotamidae, Hydroptilidae, Stenopsychidae* Vol. II, Nederlandsche Entomologische Vereeniging, Amsterdam, 189pp.
- Flint O.S., Jr. (1963) Studies of Neotropical caddis flies, I: Rhyacophilidae and Glossosomatidae (Trichoptera) *Proceedings of the United States National Museum* 114(3473):453-478
- Flint O.S., Jr. (1964) The caddisflies (Trichoptera) of Puerto Rico *University of Puerto Rico, Agricultural Experiment Station, Technical Paper* 40:1-80
- Flint O.S., Jr. (1966) Studies of Neotropical caddis flies, III: types of some species described by Ulmer and Brauer *Proceedings of the United States National Museum* 120(3559):1-20
- Flint O.S., Jr. (1967a) Studies of Neotropical caddis flies, II: Trichoptera collected by Prof. Dr. J. Illies in the Chilean Subregion *Beiträge zur Neotropischen Fauna* 5(1):45-68
- Flint O.S., Jr. (1967b) Studies of Neotropical caddis flies, IV: new species from Mexico and Central America *Proceedings of the United States National Museum* 123(3608):1-24
- Flint O.S., Jr. (1967c) Studies of Neotropical caddis flies, V: types of the species described by Banks and Hagen *Proceedings of the United States National Museum* 123(3619):1-37
- Flint O.S., Jr. (1968) Bredin-Archbold-Smithsonian Biological Survey of Dominica, 9. The Trichoptera (Caddisflies) of the Lesser Antilles *Proceedings of the United States National Museum* 125(3665):1-86
- Flint O.S., Jr. (1969) Studies of Neotropical caddis flies, IX: new genera and species from the Chilean Region *Proceedings of the Entomological Society of Washington* 71(4):497-514

- Flint O.S., Jr. (1970) Studies of Neotropical caddisflies, X: *Leucotrichia* and related genera from North and Central America (Trichoptera: Hydroptilidae) *Smithsonian Contributions to Zoology* 60:1-64
- Flint O.S., Jr. (1971) Studies of Neotropical caddisflies, XII: Rhyacophilidae, Glossosomatidae, Philopotamidae, and Psychomyiidae from the Amazon basin (Trichoptera) *Amazoniana* 3:1-67
- Flint O.S., Jr. (1972) Studies of Neotropical caddis flies, XIV: on a collection from northern Argentina *Proceedings of the Biological Society of Washington* 85(17):223-248
- Flint O.S., Jr. (1974a) Studies of Neotropical caddisflies, XV: the Trichoptera of Surinam *Studies on the Fauna of Suriname and other Guianas* 14(55):1-151
- Flint O.S., Jr. (1974b) Studies of Neotropical caddisflies, XVII: the genus *Smicridea* from North and Central America (Trichoptera: Hydropsychidae) *Smithsonian Contributions to Zoology* 167:1-65
- Flint O.S., Jr. (1974c) Studies of Neotropical caddisflies, XVIII: new species of Rhyacophilidae and Glossosomatidae (Trichoptera) *Smithsonian Contributions to Zoology* 169:1-30
- Flint O.S., Jr. (1975) Studies of Neotropical caddis flies, XX: Trichoptera collected by the Hamburg South-Peruvian Expedition *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg* 4:565-573
- Flint O.S., Jr. (1976) A preliminary report of studies on Neotropical Trichoptera pp. 47-48 En: H. Malicky (ed.) *Proceedings of the 1st International Symposium on Trichoptera* The Hague: Dr. W. Junk Publishers
- Flint O.S., Jr. (1979) Studies of Neotropical caddis flies, XXIII: new genera from the Chilean Region *Proceedings of the Biological Society of Washington* 92(3):640-649
- Flint O.S., Jr. (1981) Studies of Neotropical caddisflies, XXVIII: the Trichoptera of the Río Limón basin, Venezuela *Smithsonian Contributions to Zoology* 330:1-60
- Flint O.S., Jr. (1982) Studies of Neotropical caddisflies, XXX: larvae of the genera of South American Limnephilidae (Trichoptera) *Smithsonian Contributions to Zoology* 355:1-30
- Flint O.S., Jr. (1983) Studies of Neotropical caddisflies, XXXIII: new species from austral South America (Trichoptera) *Smithsonian Contributions to Zoology* 377:1-100
- Flint O.S., Jr. (1986) [for 1985] Studies of Neotropical caddis flies, XXXVI: the genus *Cochliopsyche* in Middle America (Trichoptera: Helicopsychidae) *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Series de Zoología* 56(1):213-216
- Flint O.S., Jr. (1991) Studies of Neotropical caddisflies, XLV: the taxonomy, phenology, and faunistics of the Trichoptera of Antioquia, Colombia *Smithsonian Contributions to Zoology* 520:1-113
- Flint O.S., Jr. (1992) Studies of Neotropical caddisflies, XXXVIII: a review of the classification and biology of the Neotropical microcaddisflies, with the description of a new genus (Trichoptera: Hydroptilidae: Leucotrichiini) pp. 525-531 En: D. Quintero, A. Aiello (eds.) *Insects of Panama and Mesoamerica: Selected Studies* Oxford: Oxford University Press
- Flint O.S., Jr. (1998) Studies of Neotropical caddisflies, LIII: a taxonomic revision of the subgenus *Curgia* of the genus *Chimarra* (Trichoptera: Philopotamidae) *Smithsonian Contributions to Zoology* 594:1-131
- Flint O.S., Jr., J. Bueno-S. (1982) Studies of Neotropical caddisflies, XXXII: the immature stages of *Macronema variipenne* Flint & Bueno, with the division of *Macronema* by the resurrection of *Macrostemum* (Trichoptera: Hydropsychidae) *Proceedings of the Biological Society of Washington* 95(2):358-370
- Flint O.S., Jr., J.F. McAlpine, H.H. Ross (1987) A revision of the genus *Leptonema* Guérin (Trichoptera: Hydropsychidae) *Smithsonian Contributions to Zoology* 450:1-193
- Flint O.S., Jr., L. Reyes-A. (1991) Studies of Neotropical caddisflies, XLVI: the Trichoptera of the Río Moche basin, Department of La Libertad, Peru *Proceedings of the Biological Society of Washington* 104(3):474-492
- Flint O.S., Jr., S.C. Harris (1991) Studies of Neotropical caddisflies, XLII: *Taraxitrichia amazonensis*, a new genus and species of microcaddisfly from Venezuela (Trichoptera: Hydroptilidae) pp. 411-414 En: C. Tomaszewski (ed.) *Proceedings of the Sixth International Symposium on Trichoptera* Poznan, Poland: Adam Mickiewicz University Press
- Flint O.S., Jr., S.C. Harris, L. Botosaneanu (1994) Studies of Neotropical caddisflies, L: the description of *Cerasmatrichia*, new genus, a relative of *Alisotrichia*, with descriptions of new and old species and the larva (Trichoptera: Hydroptilidae) *Proceedings of the Biological Society of Washington* 107(2):360-382
- Flint O.S., Jr., R.W. Holzenthal, S.C. Harris (1999) Catalog of the Neotropical Caddisflies (Insecta: Trichoptera) Ohio Biological Survey, Columbus, Ohio, 239pp.
- Guérin-Meneville F.E. (1843) Insecta: Trichoptera, 3b, pp. 395-397 En: Cuvier *Iconographie du Règne Animal du Cuvier* Paris

- Hagen H. (1861) Synopsis of the Neuroptera of North America *Smithsonian Miscellaneous Collections* 4(1):1-347
- Harris S.C. (1990) New species of *Neotrichia* (Trichoptera: Hydroptilidae) from Central and South America *Journal of the New York Entomological Society* 98(2):246-260
- Harris S.C., O.S. Flint, Jr. (1992) Studies of Neotropical caddisflies, XLVII: *Kumanskiella*, a new genus of microcaddisflies from Cuba and Puerto Rico *Journal of the New York Entomological Society* 100(4):581-593
- Harris S.C., J. Bueno-S. (1993) *Scelobotrichia*, a new genus of microcaddisfly from Mexico (Trichoptera: Hydroptilidae) *Folia Entomológica Mexicana* 87:73-83
- Harris S.C., R.W. Holzenthal (1997) *Mejicanotrichia*, a new genus of microcaddisflies from Mexico and Guatemala (Trichoptera: Hydroptilidae) pp. 129-137 En: R.W. Holzenthal, O.S. Flint, Jr. (eds.) *Proceedings of the 8th International Symposium on Trichoptera* Columbus, Ohio: Ohio Biological Survey
- Holzenthal R.W. (1984) Studies in Neotropical Leptoceridae (Trichoptera) I: *Achoropsyche*, a new genus pp. 181-184 En: J.C. Morse (ed.) *Proceedings of the 4th International Symposium on Trichoptera* The Hague: Dr W. Junk Publishers
- Holzenthal R.W. (1985) Studies in Neotropical Leptoceridae (Trichoptera) II: *Amphoropsyche*, a new genus and species of Leptocerinae from northern South America *International Journal of Entomology* 27(3):254-269
- Holzenthal R.W. (1986) The Neotropical species of *Notalina*, a southern group of long-horned caddisflies (Trichoptera: Leptoceridae) *Systematic Entomology* 11:61-73
- Holzenthal R.W. (1988a) Systematics of Neotropical *Triplectides* (Trichoptera: Leptoceridae) *Annals of the Entomological Society of America* 81(2):187-208
- Holzenthal R.W. (1988b) Studies in Neotropical Leptoceridae (Trichoptera), VIII: the genera *Atanatolica* Mosely and *Grumichella* Müller (Triplectidinae: Grumichellini) *Transactions of the American Entomological Society* 114:71-128
- Holzenthal R.W. (1989) Studies in Neotropical Leptoceridae (Trichoptera), IX: a new genus and species from southeastern Brazil *Aquatic Insects* 11(1):29-32
- Holzenthal R.W. (1997) The caddisfly (Trichoptera) family Atriplectididae in the Neotropics pp. 157-165 En: R.W. Holzenthal, O.S. Flint, Jr. (eds.) *Proceedings of the 8th International Symposium on Trichoptera* Columbus, Ohio: Ohio Biological Survey
- Holzenthal R.W., O.S. Flint, Jr. (1995) Studies of Neotropical caddisflies, LI: systematics of the Neotropical caddisfly genus *Contulma* (Trichoptera: Anomalopsychidae) *Smithsonian Contributions to Zoology* 575:1-59
- Kelley R.W. (1983) New Neotropical species of *Oxyethira* (Trichoptera: Hydroptilidae) *Proceedings of the Entomological Society of Washington* 85(1):41-54
- Kloet G.S., W.D. Hincks (1944) Nomenclatorial notes on two generic names in the Trichoptera *Entomologist* 77:97
- Kolenati F.A. (1859) Genera et Species Trichopterorum, Pars Altera *Nouveaux Mémoires de la Société Impériale des Naturalistes de Moscou* 11:141-296
- Leach W.E. (1815) Entomology pp. 57-172 En: Sir David Brewster (ed.) *The Edinburgh Encyclopedia* (William Blackwood, et al.) [1^{era} Ed., 9 (Parte 1):1-384 + láminas, CCLIII-CCCLV], Edinburgh
- Lestage J.A. (1925) Notes trichoptérologiques (7me Note) *Bulletin and Annales de la Société Entomologique de Belgique* 65:35-44
- Malicky H. (1980) Vier neue Köcherfliegen von den Insel Guadeloupe (Kleine Antillen, Mittelamerika) (Trichoptera) *Entomofauna (Zeitschrift für Entomologie)* 1(12):219-225
- Marlier G. (1962) Notes sur les Trichopteres, V.- description d'une nouvelle espèce de Limnophilidae de l'Amérique du Sud: *Magellomyia illiesi* n. sp. *Bulletin Institut Royal des Sciences naturelles de Belgique* 38(27):5-9
- Martynov A.B. (1912) On two collections of Trichoptera from Peru *Annuaire de Musée Zoologique de l'Académie Impériale des Sciences de St. Pétersbourg* 17:1-40
- McLachlan R. (1865) Trichoptera Britannica: a monograph of British species of caddis-flies *Transactions of the Entomological Society of London* 5 (third series):1-184
- McLachlan R. (1871) On new forms, etc., of extra-European trichopterous insects *Journal of the Linnean Society of London, Zoology* 11:98-141
- McLachlan R. (1877) *A monographic revision and synopsis of the Trichoptera of the European fauna* [1874-1880], Part VII, John van Voorst, London, pp. 349-428
- Merritt R.W., K.W. Cummins (eds.) (1996) *An Introduction to the Aquatic Insects of North America* (3^{ra} Ed.) Kendall/Hunt, Dubuque, 862pp.
- Mey W., W. Joost (1990) *Rhyacopsyche mutisi* n. sp.- a new microcaddisfly with an unusual larva from Colombia (Trichoptera, Hydroptilidae) *Studies on Neotropical Fauna and Environment* 25(3):133-138
- Milne L.J. (1934) *Studies in North American Trichoptera*, 3 Cambridge, Massachusetts, 128pp.

- Morse J.C. (1997) Checklist of World Trichoptera pp. 339-342 En: R.W. Holzenthal, O.S. Flint, Jr. (eds.). *Proceedings of the 8th International Symposium on Trichoptera* Ohio Biological Survey, Columbus, Ohio, USA
- Morton K.J. (1905) North American Hydroptilidae *New York State Museum Bulletin*, 86:63-75
- Mosely M.E. (1933) A Revision of the Genus *Leptonema* British Museum (Natural History), London, 69pp.
- Mosely M.E. (1934) New Exotic Hydroptilidae *Transactions of the Royal Entomological Society of London* 82(Part 1):137-163
- Mosely M.E. (1936) A revision of the Triplectidinae, a subfamily of the Leptoceridae (Trichoptera) *Transactions of the Royal Entomological Society of London* 85(Part 3):91-130
- Mosely M.E. (1937) Mexican Hydroptilidae (Trichoptera) *Transactions of the Royal Entomological Society of London* 86(Part 10):151-190
- Mosely M.E. (1939) The Brazilian Hydroptilidae (Trichoptera) *Novitates Zoologicae* 41:217-239
- Mosely M.E. (1954) The *Protoptila* group of the Glossosomatinae (Trichoptera: Rhyacophilidae). *Bulletin of the British Museum (Natural History), Entomology* 3(9):317-346
- Müller F. (1879a) Über Phryganiden *Zoologischer Anzeiger* 2:38-40, 180-182, 283-284, 405-407
- Müller F. 1879b Notes on the cases of some south Brazilian Trichoptera *Transactions of the Entomological Society of London* (Series 4) 1879(Part II):131-144
- Müller F. (1880) [for 1878] Sobre as casas construídas pelas larvas de insectos Trichopteros da Provincia de Santa Catharina *Archivos do Museu Nacional*, Rio de Janeiro 3:99-134, 210-214, láminas 8-11
- Müller F. (1885) Wie Entsteht die Gleiderung der Insektenfühler? *Kosmos* 17:201-204
- Müller F. (1888) Larven von Mücken und Haarflüglern mit zweierlei abwechselnd thätigen Athemwerkzeugen *Entomologische Nachrichten* 14(18):273-277
- Müller F. (1921) Briefe und noch nicht veröffentlichte Abhandlungen aus dem Nachlass 1854-1897 pp. 383-642 En: A. Möller (ed.) *Fritz Müller: Werke, Briefe und Leben* G. Fischer, Jena
- Muñoz-Q. F. (1999) El género *Leptonema* (Trichoptera: Hydropsychidae) en Costa Rica, con la descripción de una nueva especie *Revista de Biología Tropical* 47(4):959-1006
- Navás R.P.L. (1916a) Neurópteros Sudamericanos (tercera serie) *Brotéria: Série Zoológica* 14:14-35
- Navás R.P.L. (1916b) Neuroptera Nova Americana *Memorie della Pontificia Accademia Romana dei Nuovi Lincei* (Series I) 2:59-69
- Navás R.P.L. (1916c) Neuroptera Nova Americana *Memorie della Pontificia Accademia Romana dei Nuovi Lincei* (Series II) 2:71-80
- Navás R.P.L. (1917) Neurópteros nuevos o poco conocidos (novena serie) *Memorias de la Real Academia de Ciencias y Artes de Barcelona* (tercera época) 13:393-406
- Navás R.P.L. (1918) Neurópteros nuevos o poco conocidos (décima serie) *Memorias de la Real Academia de Ciencias y Artes de Barcelona* (tercera época) 14:339-366
- Navás R.P.L. (1920) Insectos Sudamericanos *Anales de la Sociedad Científica Argentina* (3^{ra} serie) 90:52-72
- Navás R.P.L. (1924a) Neue Trichopteren *Konowia* (Zweite Serie) 3:204-209
- Navás R.P.L. (1924b) Insectos de la América Central *Brotéria: Série Zoológica* 21(2):55-86
- Navás R.P.L. (1930) Algunos insectos de Chile [Serie 4^{ta} (1)] *Revista Chilena de Historia Natural* 34:350-366
- Navás, R.P.L. (1934) Insectos Suramericanos (novena serie) *Revista de la Academia de Ciencias de Madrid* 31:155-184
- Pictet F.J. (1834) *Recherches pour servir à l'histoire et à l'anatomie des phryganides* Geneva, 235pp. + 20 láminas
- Pictet F.J. (1836) Description de quelques nouvelles espèces de Névroptères, du Musée de Genève *Mémoires de la Société de Physique et d'Histoire Naturelle de Genève* 7:399-404
- Rambur M.P. (1842) *Histoire naturelle des insectes névroptères* Librairie Encyclopédique de Roret, Paris, 534pp. + 12 láminas
- Resh V.H., J.D. Unzicker (1975) Water quality monitoring and aquatic organisms: the importance of species identification *Journal Water Pollution Control Federation* 47:9-19
- Resh V.H. (1994) Freshwater benthic macroinvertebrates and rapid assessment procedures for water quality in developing and newly industrialized countries pp. 167-180 En: W.S. Davis, T.P. Simon (eds.) *Biological assessment and criteria: tools for resource planning and decision making* Lewis Pub., Boca Raton
- Rosenberg D.V., V.H. Resh (eds.) (1993) *Freshwater Biomonitoring and Benthic Macroinvertebrates* Chapman & Hall, New York, 488pp.
- Ross H.H. (1938a) Lectotypes of North American caddis flies in the Museum of Comparative Zoology *Psyche* 45(1):1-61
- Ross H.H. (1938b) Descriptions of Nearctic caddis flies (Trichoptera), with special reference to Illinois species *Illinois Natural History Survey Bulletin* 21(4):101-183
- Ross H.H. (1944) The caddis flies, or Trichoptera, of Illinois *Illinois Natural History Survey Bulletin* 23(1):1-326

- Ross H.H. (1947) Descriptions and records of North American Trichoptera, with synoptic notes *Transactions of the American Entomological Society* 73:125-168
- Ross H.H. (1953) Additional material on the phylogeny and dispersal of *Atopsyche* (Trichoptera, Rhyacophilidae) *Journal of the Washington Academy of Sciences* 43(9):287-293
- Ross H.H. (1956a) *Evolution and Classification of the Mountain Caddisflies* University of Illinois Press, Urbana, 213pp.
- Ross H.H. (1956b) New species of *Helicopsyche* from the Western Hemisphere (Trichoptera, Helicopsychidae) *Journal of the Washington Academy of Sciences* 46(12):397-401
- Ross H.H. (1959) New species of *Chimarra* from Mexico and Central America (Trichoptera, Philopotamidae) *Entomological News* 70(7):169-178
- Ross H.H. (1967) The evolution and past dispersal of the Trichoptera *Annual Review of Entomology* 12:169-206
- Ross H.H., E.W. King (1951) A key to the World genera of the caddisfly tribe «Hydrobiosini» (Trichoptera, Rhyacophilidae) *Acta Zoológica Lilloana* 12:501-508
- Ross H.H., J.D. Unzicker (1977) The relationships of the genera of American Hydropsychinae as indicated by phallic structures (Trichoptera, Hydropsychidae) *Journal of the Georgia Entomological Society* 12(4):298-312
- Schmid F. (1955a) Contribution à la connaissance des Trichoptères néotropicaux *Mémoires de la Société vaudoise des Sciences Naturelles* 11(69/3):117-160
- Schmid F. (1955b) Contribution à l'étude des Limnophilidae (Trichoptera) *Mitteilungen der Schweizerischen Entomologischen Gesellschaft* 28 (supplement): 1-245
- Schmid F. (1957) Contribution à l'étude des Trichoptères néotropicaux II (Trichoptera) *Beiträge zur Entomologie* 7(3/4):379-398
- Schmid F. (1958) Contribution à l'étude des Trichoptères néotropicaux III *Mitteilungen aus dem Zoologischen Museum in Berlin* 34(1):183-217
- Schmid F. (1959) Contribution à l'étude des Trichoptères néotropicaux IV *Acta Zoológica Lilloana* 17:477-483
- Schmid F. (1964) Contribution à l'étude des Trichoptères néotropicaux V *Tijdschrift voor Entomologie* 107(6):307-339
- Schmid F. (1982) La famille des Xiphocentronides (Trichoptera: Annulipalpia) *Mémoires de la Société Entomologique du Canada* 121:1-127
- Schmid F. (1989) Les Hydrobiosides (Trichoptera, Annulipalpia) *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* 59 (supplement):1-154
- Sibley C.K. (1926) Studies on Trichoptera *Bulletin of the Lloyd Library* 27:102-108, 185-221, 236-247
- Siebold C.T.E. (1856) *Wahre Parthenogenesis bei Schmetterlingen und Bienen* Wilhelm Engelmann, Leipzig, 144pp.
- Stephens J.F. (1829) Trichoptera pp. 316-323 En: *A Systematic Catalogue of British Insects* [Part 1: Insecta Mandibulata] Baldwin and Cradock, London, 416pp.
- Sturm H. (1960) Die terrestrischen Puppengehäuse von *Xiphocentron sturmi* Ross (Xiphocentronidae, Trichoptera) *Zoologische Jahrbücher, Abteilung für Systematik, Ökologie und Geographie der Tiere* 87:387-394
- Sykora J. (1999) Genus *Mortoniella* and its distribution in South America (Trichoptera, Glossosomatidae, Protoptilinae) pp. 377-387 En: H. Malicky, P. Chantaramongkol (eds.) *Proceedings of the 9th International Symposium on Trichoptera* Faculty of Science, Chiang Mai University, Chiang Mai, Thailand
- Tsuda M. (1938) Zur Kenntnis der Trichopteren von Liukiu auf Grund des Materials der 1935 Liukiu-Expedition *Transactions of the Biogeographical Society of Japan* 3:100-104
- Ulmer G. (1905a) Zur Kenntniss aussereuropäischer Trichopteren *Stettiner Entomologische Zeitung* 66:1-119
- Ulmer G. (1905b) Neue und wenig bekannte aussereuropäische Trichopteren, hauptsächlich aus dem Wiener Museum *Annalen des kaiserlich-königlich naturhistorischen Hofmuseums* 20:59-98
- Ulmer G. (1906) Neuer Beitrag zur Kenntnis aussereuropäischer Trichopteren *Notes from the Leyden Museum* 28:1-116
- Ulmer G. (1907a) Monographie der Macronematinae *Collections zoologiques du Baron Edm. de Selys Longchamps* (Bruxelles: Hayez) 6(2):1-121.
- Ulmer G. (1907b) Trichoptera Fasc. 60 pp. 1-259 En: P. Wytzman (ed.) *Genera Insectorum* L. Desmet Verteneuil [etc.], Bruxelles, 259pp.
- Ulmer G. (1907c) Neue Trichopteren *Notes from the Leyden Museum* 29:1-53
- Ulmer G. (1909a) Argentinische Trichopteren *Zeitschrift für wissenschaftliche Insektenbiologie* 5:73-76, 120-124
- Ulmer G. (1909b) Einige Neue Exotische Trichopteren *Notes from the Leyden Museum* 31:125-142
- Ulmer G. (1911) Einige Südamerikanische Trichopteren *Annales de la Société Entomologique de Belgique* 55:15-26

- Ulmer G. (1913) Verzeichnis der südamerikanischen Trichopteren, mit bemerkungen über einzelne Arten *Deutsche Entomologische Zeitschrift* 1913:383-414
- Ulmer G. (1955) Köcherfliegen (Trichopteren) von den Sunda- Inseln (Teil II) *Archiv für Hydrobiologie* 21 (Supplement):408-608
- Walker F. (1852) *Catalogue of the Specimens of Neuropterous Insects in the Collection of the British Museum, Part I: Phryganides-Perlides* British Museum, London, 192pp.
- Wallengren H.D.J. (1891) Skandnaviens Neuroptera, Andra Afdelningen Kongliga Svenska Vetenskaps-Akademiens, *Handlingar* 24(10):1-173
- Westwood J.O. (1839) [1838-1840] Trichoptera pp. 49-51 En: *Synopsis of the Genera of British Insects* London: Longman, Orme, Brown, Green, and Longmans, 158 pp. [Usualmente unido con el Vol. 2, "An Introduction to the Modern Classification of Insects Founded on Natural Habits and Corresponding Organisation of the Different Families" 587pp.]
- Wichard W. (1986) Köcherfliegen des Dominikanischen Bernsteins. V. *Palaehydropsyche fossilis* gen.n. sp.n. (Trichoptera: Hydropsychidae) *Studies on Neotropical Fauna and Environment* 21:189-195
- Wiggins G.B. (1996) *Larvae of the North American Caddisfly Genera (Trichoptera)* (2^{da}. Ed.) University of Toronto Press, Toronto, Buffalo, 457pp.
- Yamamoto T. (1966) Five new species of the caddisfly genus *Polycentropus* from South America (Trichoptera: Polycentropodidae) *The Canadian Entomologist* 98(9):908-912

Anexos / Appendix

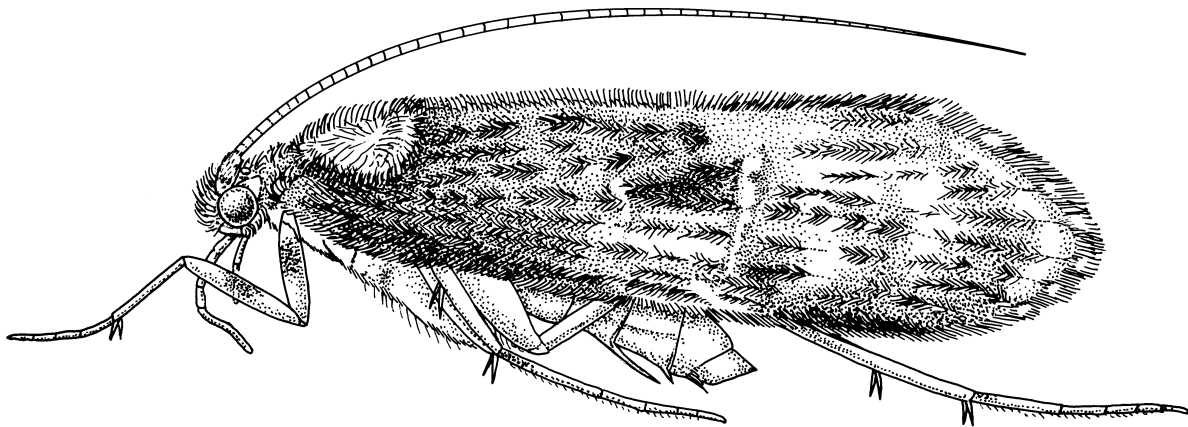
Listado de nombres inválidos de las especies de Trichoptera conocidas para Colombia que pueden encontrarse en la literatura. Se adjuntan los correspondientes nombres válidos, las familias a las que pertenecen y las respectivas referencias bibliográficas.

Checklist of the invalid names of the known caddisfly species for Colombia that can be found in the literature. Also, it offers the correspondent valid names of the species and their respective families and literature references.

- Alisotrichia adunca* = *Cerasmatrichia adunca* (Flint), 1991 [Hydroptilidae]: Flint et al. 1994
- Anisocentropus columbiana* = *Banyallarga columbiana* (Navás), 1934 [Calamoceratidae]: Flint 1983
- Banyallarga crenatus* = *Phylloicus crenatus* (Navás), 1916 [Calamoceratidae]: Flint 1983
- Chimarrha angustipennis* = *Chimarra* (*Chimarra*) *angustipennis* (Banks), 1903 [Philopotamidae]: Ross 1944
- Chimarrha immaculata* = (*Chimarra*) (*Curgia*) *immaculata* (Ulmer), 1911 [Philopotamidae]: Fischer 1961; Flint 1981, 1998
- Cordillopsyche costalis* = *Polyplectropus costalis* (Banks), 1913 [Polycentropodidae]: Flint 1967b
- Hydropsyche hyalina* = *Macrostemum hyalinum* (Pictet), 1836 [Hydropsychidae]: Flint & Bueno-S. 1982; Ulmer 1907a
- Hydropsyche bivittata* = *Smicridea* (*Smicridea*) *bivittata* (Hagen) 1861 [Hydropsychidae]: Sibley 1926
- Leptocella dorsalis* = *Nectopsyche dorsalis* (Banks), 1901 [Leptoceridae]: Flint 1974a
- Leptocella nigricapilla* = *Nectopsyche nigricapilla* (Navás), 1920 [Leptoceridae]: Flint 1974a
- Leptocella pulchella* = *Grumichella pulchella* (Banks), 1910 [Leptoceridae]: Holzenthal 1988b; Ulmer 1955
- Leptocella punctata* = *Nectopsyche punctata* (Ulmer), 1905 [Leptoceridae]: Flint 1974a
- Leptocella splendida* = *Nectopsyche splendida* (Navás), 1917 [Leptoceridae]: Flint 1974a
- Leptocellodes flaveola* = *Grumichella flaveola* (Ulmer), 1911 [Leptoceridae]: Ulmer 1955
- Leptocerus inconspicua* = *Oecetis inconspicua* (Walker), 1852 [Leptoceridae]: Milne 1934
- Loxotrichia azteca* = *Oxyethira* (*Loxotrichia*) *azteca* (Mosely), 1937 [Hydroptilidae]: Ross 1944
- Macronema ? apicale* = *Centromacronema apicale* (Walker), 1852 [Hydropsychidae]: Ulmer 1905b
- Macronema auripenne* = *Centromacronema auripenne* (Rambur), 1842 [Hydropsychidae]: Ulmer 1905b
- Macronema excisum* = *Centromacronema excisum* (Ulmer), 1905 [Hydropsychidae]: Ulmer 1905b
- Macronema oculatum* = *Centromacronema oculatum* (Walker), 1852 [Hydropsychidae]: Ulmer 1907b
- Macronema albovirens* = *Leptonema albovirens* (Walker), 1852 [Hydropsychidae]: Ulmer 1905a
- Macronema ulmeri* = *Macrostemum ulmeri* (Banks), 1913 [Hydropsychidae]: Flint & Bueno-S. 1982
- Magellomyia illiesi* = *Anomalocosmoecus illiesi* (Marlier), 1962 [Limnephilidae]: Flint 1982
- Mexitrichia foersteri* = *Mortoniella foersteri* (Schmid), 1964 [Glossosomatidae]: Sykora 1999
- Ochrotrichia anisoscola* = *Metrichia anisoscola* (Flint), 1991 [Hydroptilidae]: Wiggins 1996

Ochrotrichia bola = *Metrichia bola* (Flint), 1991
[**Hydroptilidae**]: Wiggins 1996
Ochrotrichia cuspidata = *Metrichia cuspidata* (Flint), 1991
[**Hydroptilidae**]: Wiggins 1996
Ochrotrichia lenophora = *Metrichia lenophora* (Flint),
1991 [**Hydroptilidae**]: Wiggins 1996
Ochrotrichia macrophallata = *Metrichia macrophallata*
(Flint), 1991 [**Hydroptilidae**]: Wiggins 1996
Ochrotrichia malada = *Metrichia malada* (Flint), 1991
[**Hydroptilidae**]: Wiggins 1996
Ochrotrichia protrudens = *Metrichia protrudens* (Flint),
1991 [**Hydroptilidae**]: Wiggins 1996
Ochrotrichia rona = *Metrichia rona* (Flint), 1991
[**Hydroptilidae**]: Wiggins 1996
Ochrotrichia sacculifera = *Metrichia sacculifera* (Flint),
1991 [**Hydroptilidae**]: Wiggins 1996
Polycentropus laminatus = *Polyplectropus laminatus*
(Yamamoto), 1966 [**Polycentropodidae**]: Flint 1968
Polycentropus recurvatus = *Polyplectropus recurvatus*
(Yamamoto), 1966 [**Polycentropodidae**]: Flint 1968

Protarra peruviana = *Chimarrhodella peruviana* (Ross),
1956 [**Philopotamidae**]: Flint 1971
Protarra ulmeri = *Chimarrhodella ulmeri* (Ross), 1956
[**Philopotamidae**]: Flint 1971
Protoptila parce = *Oxyethira (Loxotrichia) parce*
(Edwards & Arnold), 1961 [**Hydroptilidae**]: Flint & Re-
yes-A. 1991
Pseudosetodes puntipennis = *Oecetis puntipennis* (Ulmer),
1905 [**Leptoceridae**]: Flint 1966
Rhyacophylax columbiana = *Smicridea (Rhyacophylax)*
columbiana (Ulmer), 1905 [**Hydropsychidae**]: Flint 1974b
Setodes avara = *Oecetis avara* (Banks), 1895
[**Leptoceridae**]
Setodes duodecimpunctata = *Achoropsyche*
duodecimpunctata (Navás), 1916 [**Leptoceridae**]: Flint
1972; Holzenthal 1984
Setodes gemma = *Nectopsyche gemma* (Müller), 1880
[**Leptoceridae**]: Flint 1974a; Müller 1921; Ulmer 1905b
Ventrarma callosa = *Atopsyche (Atopsaura) callosa*
(Navás), 1924 [**Hydrobiosidae**]: Flint 1975





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